CONFIDENTIAL

Enclosure II

HRS COVER SHEET

FACILITY NAME: TRW/JH Williams Div.

EPA I.D. #: NYD-051814077

ORIGINAL PRIORITY: Low

REVIEWED BY: Randy Rice / NUS Corp

REASSESSED PRIORITY: Med

REVIEWED BY: Phil Guarnaccia EPA

COMMENTS: RCRA approved closure, however there was extensive contamination on site. Sampling should be performed to confirm adequacy of closure

PREPARER: Phil Guarnaccia EPA 11/17/88 DATE: _____

TRW
NYD-051814077

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HRS

	S	S^2
Groundwater Route Score (S_{gw})	0.00	0.00
Surface Water Route Score (S_{sw})	10.29	105.96
Air Route Score (S_a)	0.00	0.00
$S_{gw}^2 + S_{sw}^2 + S_a^2$		105.96
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		10.29
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73 = S_M$		5.95

WORKSHEET FOR COMPUTING S_M

PRO

	S	S^2
Groundwater Route Score (S_{gw})	19.62	384.94
Surface Water Route Score (S_{sw})	96.93	3961.07
Air Route Score (S_a)		0.00
$S_{gw}^2 + S_{sw}^2 + S_a^2$		65.92
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73 = S_M$		~~381~~ 3810

WORKSHEET FOR COMPUTING S_M

TRW
, NYD-05-1814077

Ground Water Route Work Sheet

Rating Factor	Assigned Value (Circle One)	Multiplier	HRS	Max. Score	PRO
1 Observed Release	0 45	1	—	45	45
If observed release is given a score of 45, proceed to line 4. If observed release is given a score of 0, proceed to line 2.					
2 Route Characteristics					
Depth to Aquifer of Concern	0 1 2 3	2	2	6	
Net Precipitation	0 1 2 3	1	2	3	
Permeability of the Unsaturated Zone	0 1 2 3	1	1	3	
Physical State	0 1 2 3	1	3	3	
Total Route Characteristics Score			8	15	—
3 Containment	0 1 2 3	1	1	3	—
4 Waste Characteristics					
Toxicity/Persistence	0 3 6 9 12 15 18	1	18	18	18
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1	5	8	7
Total Waste Characteristics Score			23	26	25
5 Targets					
Ground Water Use	0 1 2 3	3	—	9	3
Distance to Nearest Well/Population Served	0 4 6 8 10 / 12 16 18 20 / 24 30 32 35 40	1	—	40	4
Total Targets Score			0	49	7
6 If line 1 is 45, multiply 1 x 4 x 5 / If line 1 is 0, multiply 2 x 3 x 4 x 5				57,330	7875
7 Divide line 6 by 57,330 and multiply by 100		S_{gw} =	0.00		13.74

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Surface Water Route Work Sheet

Rating Factor	Assigned Value (Circle One)	Multiplier	HRS	Max. Score	PRO
1 Observed Release	0 45	1	—	45	45
If observed release is given a value of 45, proceed to line 4. If observed release is given a value of 0, proceed to line 2.					
2 Route Characteristics					
Facility Slope and Intervening Terrain	0 1 2 3	1	1	3	
1-yr. 24-hr. Rainfall	0 1 2 3	1	2	3	
Distance to Nearest Surface Water	0 1 2 3	2	2	6	
Physical State	0 1 2 3	1	3	3	
Total Route Characteristics Score			8	15	—
3 Containment	0 1 2 3	1	1	3	—
4 Waste Characteristics					
Toxicity/Persistence	0 3 6 9 12 15 18	1	18	18	18
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1	5	8	7
Total Waste Characteristics Score			23	26	25
5 Targets					
Surface Water Use	0 1 2 3	3	6	9	6
Distance to a Sensitive Environment	0 1 2 3	2	0	6	2
Population Served/Distance to Water Intake Downstream	0 4 6 8 10 12 16 18 20 24 30 32 35 40	1	30	40	30
Total Targets Score			36	55	36
6 If line 1 is 45, multiply 1 x 4 x 5. If line 1 is 0, multiply 2 x 3 x 4 x 5			6624	64,350	40,500
7 Divide line 6 by 64,350 and multiply by 100		S_{sw} =	10.29		62.93

Air Route Work Sheet

Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Max. Score	PRO
1 Observed Release	0 45	1		45	
Date and Location:					
Sampling Protocol:					
If line 1 is 0, the S_a = 0. Enter on line 5 If line 1 is 45, then proceed to line 2					
2 Waste Characteristics					
Reactivity and Incompatibility	0 1 2 3	1		3	
Toxicity	0 1 2 3	3		9	
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1		8	
	Total Waste Characteristics Score			20	
3 Targets					
Population Within 4-Mile Radius	0 9 12 15 18 21 24 27 30	1		30	
Distance to Sensitive Environment	0 1 2 3	2		6	
Land Use	0 1 2 3	1		3	
	Total Targets Score			39	
4 Multiply 1 x 2 x 3				35,100	
5 Divide line 4 by 35,100 and multiply by 100		S_a =			